

Quadrogen partners with Evonik to utilize Sepuran® Green membrane technology for CO₂ removal from biogas

July 26, 2013, Vancouver, BC – Quadrogen Power Systems, Inc., a Vancouver based biogas clean-up system provider, announced the signing of an agreement with Evonik Industries on June 10, 2013 in Vancouver, BC, to incorporate Evonik's Sepuran® membrane technology into its biogas cleaning and upgrading systems for removal of CO₂. Evonik Industries is one of the world's leading specialty chemical companies. This agreement recognizes Quadrogen's rapid growth potential and emergence in the renewable energy sector.

Quadrogen's Integrated Biogas Clean-Up System (IBCS), installed at a wastewater treatment plant in California, has demonstrated impressive performance by removing critical contaminants in biogas to the parts per billion level (by volume) and by providing reliable operation. Quadrogen's partnership with Evonik is a step towards producing biomethane of pipeline quality with unmatched efficiency and reliability.

Under the agreement, Evonik Industries will supply efficient, energy-saving membrane technology to remove CO₂ from biogas. Evonik's advanced hollow-fiber Sepuran® Green membrane technology provides superior selectivity of CO₂ over methane to yield biomethane (CH₄) purities of up to 99%.

Maureen Schaefer, Business Development Manager of Evonik Industries, believes that Quadrogen's biogas pre-treatment system is unique in its capability to remove contaminants to the parts per billion level prior to CO₂ separation using Evonik's membrane.

The quality of biomethane produced with Quadrogen's biogas upgrading process will match the methane content of commercial natural gas, making biomethane injection into natural gas pipelines possible.

Alakh Prasad, President and CEO of Quadrogen Power Systems, is confident that this agreement with Evonik is a step in the right direction. "This partnership of technologies will allow Quadrogen to produce biomethane from biogas and landfill gas more reliably and cost effectively than existing platforms. We're ready to take the lead in the biomethane industry by economically upgrading gas from any source".

-♦-

About EVONIK Fibres GmbH - Evonik, the creative industrial group from Germany, is one of the world leaders in specialty chemicals. Profitable growth and a sustained increase in the value of the company form the heart of Evonik's corporate strategy. Its activities focus on the key megatrends health, nutrition, resource efficiency and globalization. Evonik benefits specifically from its innovative prowess and integrated technology platforms. Evonik is active in over 100 countries around the world.

About QUADROGEN POWER SYSTEMS, INC. – Quadrogen designs and builds reliable, cost-effective clean-up systems for a wide variety of gaseous fuel applications. The clean-up technologies are modular and scalable to cost effectively purify landfill gas, digester gas, or syngas. The company is headquartered in Vancouver, Canada. More information is available at www.quadrogen.com